

**1.1 Computational Methods in Models with Stochastic Volatility**

Room: Fulton 115

Organizers: *Filippo Altissimo* and *Fabio Fornari* – Bank of Italy

Chairperson: *Antonio Mele* – THEMA

NONPARAMETRIC ESTIMATION OF MULTIFACTOR CONTINUOUS TIME INTEREST-RATE MODELS

*Christopher T. Downing* – Board of Governors, Federal Reserve

STOCHASTIC VOLATILITY: UNIVARIATE AND MULTIVARIATE EXTENSIONS

*Eric Jacquier* – Boston College, *Nicholas G. Polson*, and *Peter Rossi* – University of Chicago

ARCH MODELS AND OPTION PRICING: THE CONTINUOUS-TIME CONNECTION

*Antonio Mele* – THEMA and *Fabio Fornari* – Bank of Italy

**1.2 Games I**

Room: Fulton 117

Chairperson: *Jane M. Binner* – Nottingham Business School

LEARNING TO TRUST: UNCOVERING UNOBSERVED MULTI-PERIOD BEHAVIORAL STRATEGIES FROM OBSERVED STAGE GAME ACTIONS USING FINITE AUTOMATA

*Jim Warnick* – University of Pittsburgh and *Robert L. Slonim* – Case Western Reserve University

MOVING-HORIZON CONTROL IN DYNAMIC GAMES

*W.A. van den Broek* – Tilburg University

LEARNING SCHEMES IN EVOLUTIONARY GAME THEORY: APPLICATION TO A MODEL OF ENTRY IN A REGULATED MARKET

*Iqbal Adjali*, *A. A. Reeder*, *David Collings*, *M. H. Lyons*, and *A. Varley* – BT Laboratories

THE USE OF QUALITATIVE RESEARCH TO DEVELOP A COMPUTATIONAL MODEL FOR DYNAMIC ENTRY DETERRENCE IN AN EMERGING MARKET

*Jane M. Binner* – Nottingham Business School, *C. B. Lee*, *W. D. Murphy* – University of Derby, and *L. R. Fletcher* – University of Salford

**1.3 Financial Econometrics I**

Room: Fulton 145

Chairperson: *Dietmar P. J. Leisen* – Stanford University

FINITE ELEMENT METHODS IN BOND AND OPTION PRICING

*Juergen Topper* – Arthur Andersen and University of Hannover

PERFORMANCE OF A HEDGED DYNAMIC PORTFOLIO MODEL IN THE PRESENCE OF EXTREME EVENTS

*Rosella Giacometti* – Università di Bergamo and *Rosella Castellano* – Università di Macerata

INFINITE-HORIZON OPTIMAL HEDGING UNDER CONE CONSTRAINTS

*Keven Xiaodong Huang* – Utah State University

VALUATION OF BARRIER OPTIONS IN A BLACK-SCHOLES SETUP WITH JUMP RISK

*Dietmar P. J. Leisen* – Stanford University and University of Bonn

#### 1.4 Stochastic Simulation in Rational Expectations

Room: Fulton 150

Organizers: *Michel Juillard* – University Paris VIII and CEPREMAP and *Douglas Laxton* – International Monetary Fund

Chairperson: *Michel Juillard* – University Paris VIII and CEPREMAP

AN ANALYSIS OF THE ROBUSTNESS OF SIMPLE MONETARY POLICY RULES IN SIMPLE MODELS OF THE OUTPUT-INFLATION PROCESS

*Douglas Laxton* – International Monetary Fund

IS IT WORTH REDUCING EXCLUSION?

*Fabrice Collard* – CEPREMAP, *Patrick Fève* – Nantes University and CEPREMAP, and *François Langot* – University of Le Mans and CEPREMAP

MATHEMATICAL AND NUMERICAL ANALYSIS OF A TYPE OF MONETARY MODEL

*Jenny Li* – Pennsylvania State University

STOCHASTIC SIMULATIONS OF A NON-LINEAR PHILLIPS CURVE MODEL

*Michel Juillard* – University Paris VIII and CEPREMAP and *Fabrice Collard* – CEPREMAP

#### 1.5 Modeling

Room: Fulton 235

Chairperson: *Sunanda Roy* – University of Southern California

A PRIMAL-DUAL DECOMPOSITION-BASED INTERIOR-POINT APPROACH TO TWO-STAGE STOCHASTIC PROGRAMMING

*Arjan B. Berkelaar*, *K.P. Bart Oldenkamp* – Erasmus University, and *Cees L. Dert* – Free University of Amsterdam

MODELING THE ECONOMICS OF INTERNET COMPANIES

*Deniz Yuret* – Massachusetts Institute of Technology, *Ayla Ogus* – Boston College, and *Michael de la Maza* – Redfire Capital Management Group

SOLVING LARGE AND SMALL MODELS ON MICROCOMPUTERS

*Jean-Louis Brillet* – INSEE

GOVERNMENT-PRIVATE OWNERSHIP EQUILIBRIUM WITH INCOMPLETE MARKETS

*Sunanda Roy* – University of Southern California

**2.1 The Computational Complexity of Markets**

Room: Fulton 115

Organizers: *Nienke Oomes* – University of Wisconsin and *Koye Somefun* – University of Notre Dame

Chairperson: *Blake Le Baron* – Brandeis University

THE COMPLEXITY OF EXCHANGE

*Rob Axtell* – Brookings Institution and Santa Fe Institute

MARKETS AS COMPLEX DISTRIBUTED NETWORKS: IMPLICATIONS FOR EFFICIENCY AND INEQUALITY

*Nienke Oomes* – University of Wisconsin

TOWARDS AN AUTOMATA APPROACH OF (INSTITUTIONAL) ECONOMICS

*Koye Somefun* and *Philip Mirowski* – University of Notre Dame

**2.2 Bounded Rationality, Learning and Asset Prices**

Room: Fulton 117

Organizers: *Emilio Barucci* – University of Florence and *Volker Wieland* – Federal Reserve Board

Chairperson: *James Bullard* – Federal Reserve Bank of St. Louis

LEARNING WITH BOUNDED MEMORY IN STOCHASTIC MODELS

*Kaushik Mitra* and *Seppo Honkapohja* – University of Helsinki

HETEROGENEOUS EXPECTATIONS, MARKET DYNAMICS, AND SOCIAL WELFARE

*SaangJoon Baak* – International University of Japan

HETEROGENEOUS BELIEFS, RISK AND LEARNING IN A SIMPLE ASSET-PRICING MODEL

*Xue-Zhong He* and *Carl Chiarella* – University of Technology, Sydney

LEARNING AND EXCESS VOLATILITY

*James Bullard* – Federal Reserve Bank of St. Louis and *John Duffy* – University of Pittsburgh

**2.3 Dynamic Optimization**

Room: Fulton 145

Organizers: *Emilio Cerda* and *Francisco Alvarez* – Universidad Complutense de Madrid

Chairperson: *Jorge Soares* – George Washington University

ASYMMETRIC OBSERVATION ERRORS IN OPTIMAL CONTROL OF STOCHASTIC QUADRATIC LINEAR SYSTEMS AND APPLICATION TO MODELLING VOLATILITY

*Rosario Romera* and *Esther Ruiz* – Universidad Carlos III de Madrid

TREASURY BILL AUCTIONS IN SPAIN: AN OPTIMAL-CONTROL APPROACH

*Francisco Alvarez*, *Emilio Cerda*, and *Cristina Mazon* – Universidad Complutense de Madrid

BEYOND SERRANO VS. PRIEST: NATIONAL FUNDING OF EDUCATION

*Jorge Soares* – George Washington University

## 2.4 Innovation I

Room: Fulton 150

Chairperson: *G. R. Bassiry* – California State University, Santa Barbara

THE NEED FOR A NEW MICROECONOMIC PARADIGM

*Alfred Norman, Mridul Chowdhury, and Khurram Mahmood* – University of Texas, Austin

ORGANIZATIONAL STRUCTURE AND PERPETUAL INNOVATION: A COMPUTATIONAL MODEL OF A RETAIL CHAIN

*Myong-Hun Chang* – Cleveland State University and *Joseph Harrington, Jr.* – Johns Hopkins University

INSTITUTIONS AND INNOVATION DIFFUSION

*Francesco Luna and Andrea Zanatta* – University of Venice

EVOLUTION OF NETWORKS AND THE DIFFUSION OF NEW TECHNOLOGY

*Glenn T. Mitchell* – University of California, Santa Barbara

## 2.5 Nonlinear Dynamic Models: Alternative Solution Methods and Approximation Error

Room: Fulton 235

Organizer: *Volker Wieland* – Federal Reserve Board

Chairperson: *Baoline Chen* – University of Indiana

INACCURACY OF LOGLINEAR APPROXIMATION IN WELFARE CALCULATIONS: THE CASE OF INTERNATIONAL RISK SHARING

*Jinill Kim* – University of Virginia and *Sunghyun Henry Kim* – Brandeis University

INACCURACY OF LOGLINEARIZATION IN WELFARE CALCULATIONS: COMPLETE VS. INCOMPLETE MARKET ECONOMIES

*Jinill Kim* – University of Virginia, *Sunghyun Henry Kim* – Brandeis University, and *Andrew Levin* – Federal Reserve Board

DETERMINING SHORT-RUN ADJUSTMENTS: SENSITIVITY TO NON-LINEARITIES IN A REPRESENTATIVE AGENT FRAMEWORK

*Peter J. Stemp* – University of Melbourne and *Ric D. Herbert* – University of Western Sydney

IMPLICIT PROGRAMMING AND THE STABLE MANIFOLD FOR OPTIMAL GROWTH PROBLEMS

*Baoline Chen* – University of Indiana and *Robert A. Becker* – Indiana University

**3.1 Financial and Econometric Analysis of Time Series**

Room: Fulton 115

Organizer: *Jurgen A. Doornik* – Nuffield College, OxfordChairperson: *Hans-Martin Krolzig* – University of Oxford

FAST ESTIMATION OF PARAMETERS IN STATE SPACE MODELS

*Siem Jan Koopman* – CentER, Tilburg

TIME-SERIES MODELLING OF DAILY TAX REVENUES

*Marius Ooms, Björn de Groot* – Erasmus University, Rotterdam, and *Siem Jan Koopman* – CentER, Tilburg

FORECASTING VOLATILITY UNDER MULTIVARIATE STOCHASTIC VOLATILITY MODEL VIA REPROJECTION

*Pieter J. van der Sluis* – Tilburg University and *George J. Jiang* – Groningen University

COMPUTER AUTOMATION OF GENERAL-TO-SPECIFIC MODEL SELECTION PROCEDURES

*Hans-Martin Krolzig* – University of Oxford and *David Hendry* – Nuffield College, Oxford**3.2 Environmental Economics**

Room: Fulton 117

Organizer and Chairperson: *Christophe Deissenberg* – University of Aix-Marseille II

ACHIEVING DESIRED PERFORMANCE THROUGH CONSTRAINT: APPLICATION TO POLLUTION-PRODUCTION CYCLES

*Christopher Paulowski* – University of California, Berkeley

KNOWLEDGE SPILLOVER, TRANSBOUNDARY POLLUTION, AND GROWTH

*Süheyla Özyildirim* and *Nedim M. Alemdar* – Bilkent University

THE INFLUENCE OF CLEAN UP CAPITAL SUBSIDIES IN ENVIRONMENTAL OPTIMAL CONTROL MODELS WITH COMPLEX DYNAMICS

*Christophe Deissenberg* – University of Aix-Marseille II and *Laurent Cellarier* – University of Nantes and USC**3.3 Algorithms I**

Room: Fulton 145

Chairperson: *Peter A. Zadrozny* – Bureau of Labor Statistics

EXTENDING THE HIGH-LEVEL ARCHITECTURE PARADIGM TO ECONOMIC SIMULATION

*James A. Calpin, Marnie R. Salisbury, John A. Vitkevich, Jr., and David Woodward* – MITRE Corporation

SWAPPING THE NESTED FIXED-POINT ALGORITHM: A CLASS OF ESTIMATORS FOR DISCRETE MARKOV DECISION MODELS

*Victor Aguirregabiria* – University of Chicago and *Pedro Mira* – CEMFI

A TECHNIQUE FOR SOLVING RATIONAL-EXPECTATIONS MODELS

*Jean-Louis Brillet* – INSEE

PERTURBATION SOLUTION OF NONLINEAR RATIONAL EXPECTATIONS MODELS

*Peter A. Zadrozny* – Bureau of Labor Statistics and *Baoline Chen* – Rutgers University

### 3.4 Evolutionary Computing

Room: Fulton 150

Organizer and Chairperson: *Han La Poutre* – CWI Amsterdam

GOVERNANCE AND MATCHING

*Tomas Klos* – University of Groningen

A PRISONER'S DILEMMA GAME CAUSES TECHNICAL TRADING

*Shareen Joshi* – Santa Fe Institute and Reed College, *Jeffrey Parker*, and *Mark Bedau* – Reed College

COMPETING R&D STRATEGIES IN AN EVOLUTIONARY INDUSTRY MODEL

*Murat Yildizoglu* – Louis Pasteur University

THE INFLUENCE OF EVOLUTIONARY SELECTION SCHEMES ON THE ITERATED PRISONER'S DILEMMA

*David van Bragt*, *Cees van Kemenade*, and *Han La Poutre* – CWI Amsterdam

### 3.5 Heterogeneity, Private Information and Financial Intermediation

Room: Fulton 235

Organizer and Chairperson: *Marcelo Bianconi* – Tufts University

ON GOVERNMENT CREDIT PROGRAMS

*Marco Espinosa-Vega* – Federal Reserve Bank of Atlanta, *Bruce D. Smith* – University of Texas, Austin, and *Chong K. Yip* – Chinese University of Hong Kong

DIVORCE AND SAVINGS

*Carol Scotese Lehr* – Virginia Commonwealth University

OPTIMAL MONETARY POLICY WITH HETEROGENEOUS AGENTS: IS THERE A CASE FOR INFLATION?

*Theodore Palivos* – Louisiana State University

HETEROGENEITY, EFFICIENCY, AND ASSET ALLOCATION WITH ENDOGENOUS LABOR SUPPLY: THE STATIC CASE

*Marcelo Bianconi* – Tufts University

**5.1 Integrated Time Series Models I**

Room: Fulton 115

Organizer and Chairperson: *Uwe Hassler* – Free University Berlin

SIZE DISTORTIONS OF TESTS OF THE NULL HYPOTHESIS OF STATIONARITY: EVIDENCE AND IMPLICATIONS FOR APPLIED WORK

*Mehmet Caner* – Bilkent University and *Lutz Kilian* – University of Michigan

S-ESTIMATION IN THE LINEAR REGRESSION MODEL WITH LONG-MEMORY ERROR TERMS

*Philipp Sibbertsen* – University of Dortmund

ASYMPTOTIC INFERENCE FOR NONSTATIONARY FRACTIONALLY INTEGRATED PROCESSES

*Francesc Marmol* and *Juan J. Dolado* – Universidad Carlos III**5.2 Internet Economics I - Usage of the Internet**

Room: Fulton 117

Organizer: *Thorsten Wichmann* – Berlecon ResearchChairperson: *Mingzhi Li* – University of Texas at Austin

THE NATURE OF MARKETS IN THE WORLD WIDE WEB

*Bernardo A. Huberman* and *Lada A. Adamic* – Xerox PARC

RESTART STRATEGIES AND INTERNET CONGESTION

*Bernardo A. Huberman* and *Sebastian M. Maurer* – Xerox PARC

ESTIMATING INTERNET USERS' DEMAND CHARACTERISTICS

*Mingzhi Li* – University of Texas at Austin, *Alok Gupta* – University of Connecticut, *Boris Jukic* – George Mason University, *Dale O. Stahl*, and *Andrew B. Whinston* – University of Texas at Austin**5.3 Computational Econometrics and Statistics I**

Room: Fulton 145

Organizer and Chairperson: *David A. Belsley* – Boston College

EFFICIENT MONTE CARLO LIKELIHOOD ANALYSIS OF PANEL DATA MODELS WITH UNOBSERVED HETEROGENEITY IN TIME AND ACROSS INDIVIDUAL UNITS

*Jean-François Richard* – University of Pittsburgh

CALCULATING THE DENSITY AND DISTRIBUTION FUNCTION OF A SINGLY AND DOUBLY NONCENTRAL F RANDOM VARIABLE

*Marc Paoletta* – Christian Albrechts University and *Ronald W. Butler* – Colorado State University

MEDIAN UNBIASED FORECASTS FOR HIGHLY PERSISTENT AUTOREGRESSIVE PROCESSES

*Nikolay Gospodinov* – Boston College

#### 5.4 Evolution of Trade and Social Networks in Agent-Based Economies

Room: Fulton 150

Organizer and Chairperson: *Leigh Tesfatsion* – Iowa State University

SECTOR-DRIVEN CO-EVOLUTION OF REGIONAL NETWORKS AND AGENT LOCATIONS

*Catherine Dibble* – University of California, Santa Barbara

BACKWASH AND SPREAD: EFFECTS OF TRADE NETWORKS IN A SPACE OF AGENTS WHO LEARN BY DOING

*Roger A. McCain* – Drexel University

MARKET POWER EFFECTS ON WORKER-EMPLOYER NETWORK FORMATION IN EVOLUTIONARY LABOR MARKETS WITH ADAPTIVE SEARCH

*Leigh Tesfatsion* – Iowa State University

#### 5.5 Evolutionary Computation I - Financial Engineering

Room: Fulton 235

Organizers: *Shu-Heng Chen* and *Chia-Hsuan Yeh* – National Chengchi University

Chairperson: *Chun-Feng Lu* – Masterlink Securities Corporation

THE ROLE OF AUTOMATED SEMIOTIC CLASSIFICATIONS IN ECONOMIC DOMAINS

*Ana Marostica* – University of Buenos Aires and *Fernando Tohme* – Universidad Nacional del Sur

GENETIC ALGORITHMS AND TRADING STRATEGIES: NEW EVIDENCES FROM FINANCIALLY INTERESTING TIME SERIES

*Chueh-Inong Taso* – National Chengchi University

WOULD EVOLUTIONARY COMPUTATION HELP FOR DESIGNS OF ARTIFICIAL NEURAL NETS IN FINANCIAL APPLICATIONS?

*Chun-Feng Lu* – Masterlink Securities Corporation



**6.1 Evolutionary Computation II - Agent-Based Modelling of Financial Markets**

Room: Fulton 115

Organizers: *Shu-Heng Chen* and *Chia-Hsuan Yeh* – National Chengchi UniversityChairperson: *Shu-Heng Chen* – National Chengchi University

EVOLUTIONARY MODEL OF THE EXCHANGE RATE BEHAVIOR

*Jasmina Arifovic* – Simon Fraser University

HETEROGENEOUS BELIEFS, INTELLIGENT AGENTS, AND ALLOCATIVE EFFICIENCY IN AN ARTIFICIAL STOCK MARKET

*Jing Yang* – Concordia University

EVOLVING TRADERS AND THE FACULTY OF THE BUSINESS SCHOOL: A NEW ARCHITECTURE OF THE ARTIFICIAL STOCK MARKET

*Shu-Heng Chen* and *Chia-Hsuan Yeh* – National Chengchi University**6.2 Models with Explicit Expectations I**

Room: Fulton 117

Organizers: *Michael Binder* – University of Maryland and *Peter Tinsley* – University of CambridgeChairperson: *Sean Holly* – University of Cambridge

ARE “DEEP” PARAMETERS STABLE? THE LUCAS CRITIQUE AS AN EMPIRICAL HYPOTHESIS

*Jeff Fuhrer* – Federal Reserve Bank of Boston and *Arturo Estrella* – Federal Reserve Bank of New York

AN EXAMINATION OF HOW MONETARY POLICY INFLUENCES FISCAL POLICY IN THE PRESENCE OF UNCERTAINTY

*Doug Hostland* and *Chris Matier* – Department of Finance, Canada

INSTRUMENT RULES, INFLATION FORECAST RULES AND OPTIMAL CONTROL RULES WHEN EXPECTATIONS ARE RATIONAL

*Sean Holly* – University of Cambridge and *Paul Turner* – University of Sheffield**6.3 Macroeconomic Policy, Uncertainty and Rational Expectations**

Room: Fulton 145

Organizer: *Volker Wieland* – Federal Reserve BoardChairperson: *Hans Amman* – University of Amsterdam

WHY IS THE FED SO RELUCTANT TO REACT?

*Robert Tetlow* and *Peter von zur Muehlen* – Federal Reserve Board

COULD THE FED HAVE IMPROVED PRICE STABILITY?

*Walter K. Waymeyer* – and *Donald S. Allen* – Federal Reserve Bank of St. Louis

STOCHASTIC POLICY DESIGN FOR MODELS WITH RATIONAL EXPECTATIONS AND TIME-VARYING PARAMETERS

*Hans Amman* – University of Amsterdam and *David Kendrick* – University of Texas

## 6.4 Computational Econometrics and Statistics II

Room: Fulton 150

Organizer: *David A. Belsley* – Boston College

Chairperson: *Stephen G. Hall* – Imperial College Management School

REGIONAL VARIATIONS IN MEDIAN HOUSEHOLD INCOME: A NEURAL NETWORK APPROACH

*J. H. Chesnut* – United States Naval Academy

SPECIFICATION SEARCH AND STABILITY ANALYSIS

*J. Guillermo Llorente* and *J. del Hoyo* – Universidad Autónoma de Madrid

ON THE IDENTIFICATION OF COINTEGRATED SYSTEMS IN SMALL SAMPLES: PRACTICAL PROCEDURES WITH AN APPLICATION TO UK WAGES AND PRICES

*Stephen G. Hall* – Imperial College Management School, *Jennifer V. Greenslade* – Bank of England, and *S. G. Brian Henry* – London Business School

## 6.5 Agent-Based Models of Financial Markets

Room: Fulton 235

Organizer and Chairperson: *Andrew W. Lo* – Massachusetts Institute of Technology

MARKET FORCE, ECOLOGY, AND EVOLUTION

*J. Doyme Farmer* – Prediction Company

JUST ANOTHER DAY IN THE INTER-BANK FOREIGN EXCHANGE MARKET

*Rajesh Chakrabarti* – The Anderson School at UCLA

INFORMATION DISSEMINATION AND AGGREGATION IN ASSET MARKETS WITH SIMPLE INTELLIGENT TRADERS

*Andrew Lo*, *Nicholas Chan* – Massachusetts Institute of Technology, *Blake LeBaron* – Brandeis University, and *Tomaso Poggio* – Massachusetts Institute of Technology

**7.1 Complex Dynamics, Structural Change, and Cycles**

Room: Fulton 115

Organizers: *Emilio Barucci* – University of Florence and *Theo Eicher* – University of Washington in SeattleChairperson: *Carl Chiarella* – University of Technology, SydneyNETWORK EXTERNALITIES AND THE PATH DEPENDENCE OF MARKETS: WILL BILL GATES MAKE IT?  
*Max Keilbach* – ZEW and Technical University of Berlin

THE EVOLUTION OF TRADING RULES IN AN ARTIFICIAL STOCK MARKET

*Mark Howard* – University of Massachusetts

POPULATION DYNAMICS AND LABOUR FORCE PARTICIPATION WITHIN GOODWIN TYPE GROWTH-CYCLE MODELS

*Piero Manfredi* and *Luciano Fanti* – University of Pisa

APPLYING DISEQUILIBRIUM GROWTH THEORY: DEBT EFFECTS AND DEBT DEFLATION

*Carl Chiarella* – University of Technology, Sydney and *Peter Flaschel* – University of Bielefeld**7.2 Hysteresis in Models of Economic Analysis**

Room: Fulton 117

Organizers: *Laura Piscitelli* and *A. J. Hughes Hallett* – University of StrathclydeChairperson: *A. J. Hughes Hallett* – University of Strathclyde

HYSTERESIS AND UNEMPLOYMENT: A PRELIMINARY INVESTIGATION

*Rod Cross* – University of Strathclyde, *Julia Darby* – University of Glasgow, *Jonathan Ireland*, and *Laura Piscitelli* – University of Strathclyde

MICRO AND MACRO HYSTERESIS IN EMPLOYMENT UNDER EXCHANGE RATE UNCERTAINTY

*Matthias Göcke* – University of Munster and *Ansgar Belke* – University of Bochum

HYSTERESIS IN ECONOMIC SYSTEMS

*Rod Cross*, *Michael Grinfeld*, and *Laura Piscitelli* – University of Strathclyde**7.3 Development**

Room: Fulton 145

Chairperson: *Meral Karasulu* – International Monetary Fund and Bogaziçi University

A DYNAMIC STRUCTURAL ANALYSIS OF CONSUMER DEMAND FOR AUTOMOBILES IN SYDNEY, AUSTRALIA, 1981-1985

*Michael Sandfort* – Southern Methodist University

ECONOMIC REPERCUSSIONS OF ENVIRONMENTAL REGULATIONS IN POLAND: THE CASE OF THE SECOND SULFUR PROTOCOL

*Olga Kiwila* – Warsaw University

INEQUALITY AND THE GROWTH PROCESS: AN ESSAY ON DEVELOPMENT DYNAMICS

*Aminur Rahman* – University of Oxford

ASYMMETRIC SHOCKS AND LONG-RUN ECONOMIC PERFORMANCES ACROSS ITALIAN REGIONS

*Rosella Giacometti* – Università di Bergamo and *Dino Pinelli* – Fondazione ENI Enrico Mattei

#### 7.4 Learning, Optimizing Behavior and Macroeconomic Dynamics

Room: Fulton 235

Organizers: *Emilio Barucci* – University of Florence and *Volker Wieland* – Federal Reserve Board

Chairperson: *Volker Wieland* – Federal Reserve Board

LEARNING AND THE LAW OF ITERATED PROJECTIONS

*Bartholomew Moore* – Fordham University and *Huntley Schaller* – Carleton University

THE DYNAMICS OF RATIONAL LEARNING PROCESSES WITH ASYMMETRIC INFORMATION

*Maik Heinemann* – Universität Hannover

LEARNING AND CONTROL: OPTIMAL DECISION-MAKING IN A CHANGING ECONOMIC ENVIRONMENT

*Volker Wieland* – Federal Reserve Board

**8.1 Algorithms II**

Room: Fulton 115

Chairperson: *Gary Anderson* – Board of Governors, Federal Reserve

DYNAMIC PROGRAMMING OVER A CONTINUOUS AND DISJOINT MULTIDIMENSIONAL SEARCH SPACE WITH AN INFINITE TIME HORIZON

*Richard E. Hawkins, Jack Dekkers, and James B. Kleibenstein* – Iowa State University

THE EL FAROL PROBLEM AND THE INTERNET: CONGESTION AND COORDINATION FAILURE

*Ann M. Bell* – Caelum Research and *William A. Sethares* – University of Wisconsin, Madison

COMPUTATION OF OPTIMAL GROWTH MODELS: EXPERIMENTS WITH OPTIMAL CONTROL ALGORITHMS AND COMPUTER PROGRAMS

*Sardar M. N. Islam* – Victoria University of Technology and *B. D. Craven* – University of Melbourne

GAINS FROM COMBINING THE ANDERSON-MOORE ALGORITHM AND JULLIARD'S STACK ALGORITHM

*Gary Anderson* – Board of Governors, Federal Reserve**8.2 Computational Econometrics and Statistics III**

Room: Fulton 117

Organizer: *David A. Belsley* – Boston CollegeChairperson: *Lynda Khalaf* – Université Laval

CHANGE OF MEASURE IN MONTE CARLO INTEGRATION VIA GIBBS SAMPLING WITH AN APPLICATION TO STOCHASTIC VOLATILITY MODELS

*Filippo Altissimo* – Bank of Italy

BAYESIAN ANALYSIS OF THE STOCHASTIC SWITCHING REGRESSION MODEL USING MARKOV CHAIN MONTE CARLO METHODS

*Maria Odejar* – Kansas State University

PARAMETER SENSITIVITY AND ITS CYCLICAL CONSEQUENCES IN MACROECONOMETRIC MODELS

*Ulrich Heilemann* – Universität Duisburg and RWI, *Heinz Josef Münsch* – RWI, and *Michael B. E. Ackermann* – Universität Duisburg and RWI

SIMULATION BASED FINITE- AND LARGE-SAMPLE INFERENCE METHODS IN SIMULTANEOUS EQUATIONS

*Jean-Marie Dufour* – Université de Montréal and *Lynda Khalaf* – Université Laval**8.3 Software Environments for Bayesian Econometrics**

Room: Fulton 145

Organizer and Chairperson: *John Geweke* – University of Minnesota and FRB

WINDOWS SOFTWARE FOR BAYESIAN MCMC COMPUTATIONS

*Siddhartha Chib* – Washington University

USING SIMULATION METHODS FOR BAYESIAN ECONOMETRIC MODELS

*John Geweke* – University of Minnesota and FRB

USING THE BACC SOFTWARE FOR BAYESIAN INFERENCE

*William McCausland* – University of Minnesota

BAYESIAN ANALYSIS OF ECONOMETRICS SYSTEMS WITH DISCRETE VARIABLES AND INEQUALITY CONSTRAINTS

*Asli Ogunc, Dek Terrell, and R. Carter Hill* – Louisiana State University

## 8.4 Models with Explicit Expectations II

Room: Fulton 150

Organizers: *Michael Binder* – University of Maryland and *Peter Tinsley* – University of Cambridge

Chairperson: *Sharon Kozicki* – Federal Reserve Bank of Kansas City

A SMALL MACRO MODEL OF THE AUSTRALIAN INFLATION PROCESS WITH ENDOGENOUS POLICY CREDIBILITY

*Douglas Laxton* and *Timothy Callen* – International Monetary Fund

INFLATION TARGETING: THE DELEGATION AND CO-ORDINATION OF MONETARY POLICY

*S. G. Brian Henry* – London Business School, *Stephen G. Hall* – Imperial College, and *James Nixon* – London Business School

IMPLICATIONS OF THE ZERO BOUND ON INTEREST RATES FOR THE DESIGN OF MONETARY POLICY RULES

*David Reifschneider* and *John C. Williams* – Board of Governors of the Federal Reserve System

PERMANENT AND TRANSITORY POLICY SHOCKS IN A VAR WITH ASYMMETRIC INFORMATION

*Sharon Kozicki* – Federal Reserve Bank of Kansas City and *Peter Tinsley* – University of Cambridge

## 8.5 Term-Structure Modeling

Room: Fulton 235

Chairperson: *Doug Rolph* – University of Washington

ROBUST ESTIMATION OF GARMA MODEL PARAMETERS AND APPLICATION TO COINTEGRATION AMONG INTEREST RATES OF INDUSTRIALIZED COUNTRIES

*Raji Ramachandran* and *Paul Beaumont* – Florida State University

TERM STRUCTURE ESTIMATION: AN IMPLIED NORM APPROACH NEGATIVE OPTION PRICES – A PUZZLE OR JUST NOISE?

*Ioulia Ioffe* – York University, *Alexandra E. MacKay* – University of Toronto, and *Eliezer Z. Prisman* – York University

FEDERAL FUNDS FUTURES, SPOT RATES, AND EXPECTED CHANGES IN MONETARY POLICY

*Doug Rolph* – University of Washington

**9.1 Option Pricing**

Room: Fulton 115

Chairperson: *Manfred Gilli* – University of Geneva

## HEDGING OPTIONS UNDER TRANSACTION COSTS AND STOCHASTIC VOLATILITY

*Roy Kouwenberg* – Erasmus University Rotterdam, *Jacek Gondzio* – University of Edinburgh, and *Ton Vorst* – Erasmus University Rotterdam

## STOCHASTIC VOLATILITY AND THE INFORMATIONAL CONTENT OF OPTION PRICES: EMPIRICAL ANALYSIS

*Antonio Mele* – THEMA and *Fabio Fornari* – Bank of Italy

## DISCRETE-TIME CONTINUOUS-STATE INTEREST RATE MODELS

*Michael Sullivan* – Florida International University

## NUMERICAL METHODS IN MULTIVARIATE OPTION PRICING

*Manfred Gilli* – University of Geneva, *Giorgio Pualetto* – Yale University and University of Geneva, *Philippe Huber*, *Evis Kellezi*, and *Matthias Kroedel* – University of Geneva**9.2 Models with Explicit Expectations III**

Room: Fulton 117

Organizers: *Michael Binder* – University of Maryland and *Sharon Kozicki* – Federal Reserve Bank of Kansas CityChairperson: *Jang-Ting Guo* – University of California, Riverside

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